

Curriculum structure for the Master in Medicine

Master of Medicine's – Primary aims

- Train **outstanding physicians**
- Train medical students for the federal medical licensing examination **adequately and rigorously**
- Offer an **innovative, attractive and motivating model** which includes:
 - A lot of **clinical practice**, discussion of clinical cases and practical exercises
 - Working groups, constant and **regular contact with professors**
 - Curriculum based on «**PROFILES**»

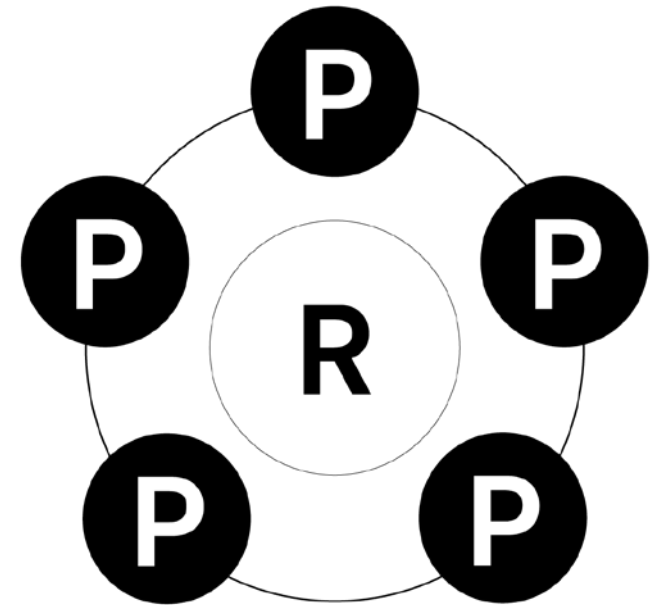
Educational principles of the model

- Interact with and see many patients
- Theoretical and practical lessons focused on priorities
- Peer-assisted learning with senior physicians
- Building a portfolio of in depth analysis of actual clinical cases
- Interactive small groups
- Learning by doing



Our unique selling points

- **Proximity:**
Proximity to professors, in clinics student teacher ratio goal 2:1
- **Practice:**
Practice oriented training in small groups (bed-side teaching, simulated patients and high-tech simulations)
- **Profiles:**
Curriculum fully adapted and inspired to PROFILES document
- **Promotion:**
Possibility to start a Dr. med. or MD-PhD already during the 5th semester
- **Personal:**
Personalized curriculum with various optional courses
- **Research:**
Research integrated in clinical modules and in optional courses





PROFILES

Principal Relevant
Objectives and Framework
for Integrated Learning
and Education in Switzerland

Bern, March 15th 2017



A first chapter listing a series of learning objectives related to the different roles of doctors, inspired by the CanMEDs Roles used worldwide



A second chapter presenting a set of entrustable professional activities [EPAs] reflecting the main medical tasks that a physician must be able to perform autonomously on the first day of his residency



A third chapter listing around 265 common clinical situations that a doctor is expected to deal with after passing the Swiss Federal Licensing Examination



SMIFK:CIMS

Schweizerische Medizinische Interfakultätskommission SMIFK
Commission interfacultés médicale suisse CIMS
Joint Commission of the Swiss Medical Schools JCSMS

Curriculum: General structure

- 4 semesters of **clinical teaching**:
 - 1st sem.: **Circulation, homeostasis, immune disorders**
 - 2nd sem.: **Women and Children, circulating cells and signaling**
 - 3rd sem.: **Emergency and surgical approach**
 - 4th sem.: **Nervous system, personality and cognition**
- Each semester will consist of 3 blocks (clinical teaching) and **2 special weeks**:
 - 1st sem.: 2 weeks of **general introduction**
 - 2nd sem.: 2 weeks of **bench to bedside**
 - 3rd sem.: 2 weeks of **pediatric practice**
 - 4th sem.: 2 weeks of training at **family doctor practice**
- During the modules students are divided into 3 groups (20-25 students per group)
 - The 3 groups rotate every 4 weeks
 - For small group activities (practical work and case discussions), each group of 20-25 is divided into 3 groups of 7-8

Curriculum: General structure

General Introduction	Clinical semester 1 Circulation, homeostasis and immune disorders	Exams	Holidays	Clinical semester 2 Women and Children, circulating cells and signaling	Bench to bedside	Clinical semester 2 Continuing	Exams	
Holidays	Pediatric practice	Clinical semester 3 Emergency and surgical approach	Exams	Holidays	Family doctor	Clinical semester 4 Nervous system, personality and cognition	Exams	
Holidays	Elective term (6 months)			Holidays	Master thesis	Complementary topics	Repetition and training for federal exam	Exams

“2 special weeks” program

1st semester – General introduction

- Training and team building with professors
- Introduction to transversal topics
- Ticino health care system
- Invasive maneuvers, minor surgery: theory and practice
- Interprofessionality
- Medical psychology, communication skills for medical students

2nd semester – Bench to bedside

- Basic teaching of research activity
- Medical research in Ticino: institutes, research fields and possibilities
- Introduction and discussion on the Master Thesis

3rd semester - Pediatric practice (rotation of 3 groups)

- Students perform, in groups of 2, a full time 2-weeks internship in pediatric practices
- 12-36 collaborating pediatricians will be specially trained to provide dynamic, high quality teaching

4th semester - Family doctor practice (rotation of 3 groups)

- Students perform, in groups of 2, a full time 2-weeks internship at a family doctor practice (General practitioner)
- 12-36 collaborating family doctors will be specially trained to provide dynamic, high quality teaching

End of semester examination

- Starting from the first semester, simulations of the federal exams will be performed at the end of each of the 4 clinical semesters, followed by a last simulation at the end of the sixth semester .
- The exams focus on the main topics of the previous semester
- Exams will include
 - Multiple choice (MC)
 - Simulated practical examination with actors (OSCE)

First semester: Circulation, homeostasis and immune disorders

1	2	3	4	5	6	7	8	9	10	11	12	13	14
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General introduction	Circulation	Homeostasis (respiration, hemodynamics, fluids and electrolytes)	Immune disorders (immunology, rheumatology, dermatology)
	Immune disorders (immunology, rheumatology, dermatology)	Circulation	Homeostasis (respiration, hemodynamics, fluids and electrolytes)
	Homeostasis (respiration, hemodynamics, fluids and electrolytes)	Immune disorders (immunology, rheumatology, dermatology)	Circulation

Second semester: Women and children, circulating cells and signaling

1	2	3	4	5	6	7	8	9	10	11	12	13	14
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Children and adolescents	Women (Gynecology and obstetrics)	Bench to bedside	Circulating cells and signaling (Hematology and endocrinology)
Circulating cells and signaling (Hematology and endocrinology)	Children and adolescents		Women (Gynecology and obstetrics)
Women (Gynecology and obstetrics)	Circulating cells and signaling (Hematology and endocrinology)		Children and adolescents

Third semester: Emergency and surgical approach

1	2	3	4	5	6	7	8	9	10	11	12	13	14
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Pediatric practice	Critical Care (Anesthesiology intensive care, emergency)				Pediatrics	Skeleton (Orthopedics, traumatology)		Abdominal organs (liver, kidney, intestine)				
Abdominal organs (liver, kidney, intestine)			Pediatric practice		Critical Care (Anesthesiology intensive care, emergency)				Pediatrics	Skeleton (Orthopedics, traumatology)		
Pediatrics	Skeleton (Orthopedics, traumatology)		Abdominal organs (liver, kidney, intestine)			Pediatric practice		Critical Care (Anesthesiology intensive care, emergency)				

Forth semester: Nervous system, personality and cognition

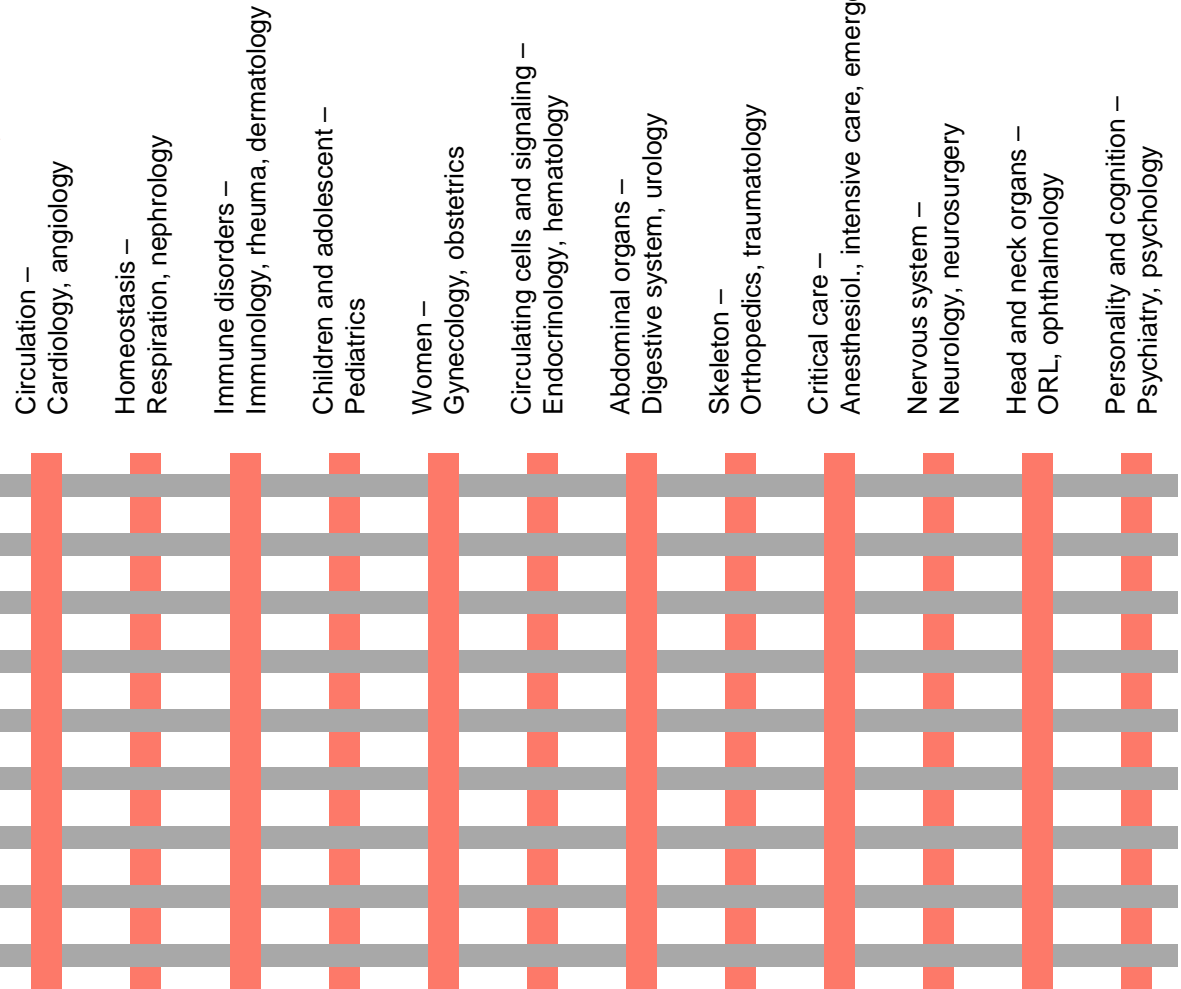
1	2	3	4	5	6	7	8	9	10	11	12	13	14
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Family doctor	Nervous system (Neurology, neurosurgery)		Personality and cognition (Psychiatry, medical psychology)	Head and neck organs (ORL, ophthalmology)
Head and neck organs (ORL, ophthalmology)		Family doctor	Nervous system (Neurology, neurosurgery)	Personality and cognition (Psychiatry, medical psychology)
Personality and cognition (Psychiatry, medical psychology)	Head and neck organs (ORL, ophthalmology)		Family doctor	Nervous system (Neurology, neurosurgery)

Responsibility framework

Vertical responsibility
(modules)

Transversal
topics



Structure of the week

Theoretical lessons

- Theory lessons general
 - 2h theory on general themes (transversal topics), all
 - 2h theory multidisciplinary on semester themes, all
- Theory lessons module themes
 - 4h theory on the module, 3 groups

Clinical activity

- 1.5 days of clinical activity at the hospital, 2 students with a Senior physician

Practice oriented teaching activity (groups of 8 students)

- 4h of clinical case discussions or practical exercises on the topic of the module
→ cases covering major diseases and prepared according to PROFILES
- 1 half-day individual preparation of own case portfolio

Assessment and feedback

- 1h assessment and feedback at the end of each week, 3 groups

2 half-days individual study (preparation for work in groups)

2h for optional subjects

	Monday	Tuesday	Wednesday	Thursday	Friday
08:30 – 09:15 09:30 – 10:15	Theoretical lessons Transversal themes (all)	Clinical activity at hospital (2 students with a Senior)	Clinical activity at hospital (2 students with a Senior)	Theoretical lessons Module theme (3 groups)	Theoretical lessons Module theme (3 groups)
10:30 – 11:15 11:30 – 12:15	Theoretical lessons Semester themes (all)	Clinical activity at hospital (2 students with a Senior)	Clinical activity at hospital (2 students with a Senior)	Discussion of clinical cases or practical exercises Module theme (in groups of 8)	Discussion of clinical cases or practical exercises Module theme (in groups of 8)
12:15 – 13:30					
13:30 – 14:15 14:30 – 15:15	Optional subjects	Clinical activity at hospital (2 students with a Senior)	Case preparation (individually at hospital)	Individual study	Assessment and feedback
15:30 – 16:15 16:30 – 17:15	Optional subjects	Clinical activity at hospital (2 students with a Senior)			Individual study

	Monday	Tuesday	Wednesday	Thursday	Friday
08:30 – 09:15 09:30 – 10:15	Theoretical lessons Transversal themes (all)	Theoretical lessons Module theme (3 groups)	Theoretical lessons Module theme (3 groups)	Clinical activity at hospital (2 students with a Senior)	Clinical activity at hospital (2 students with a Senior)
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15:30 – 16:15 16:30 – 17:15	Optional subjects		Individual study	Clinical activity at hospital (2 students with a Senior)	

See you in September 2020

